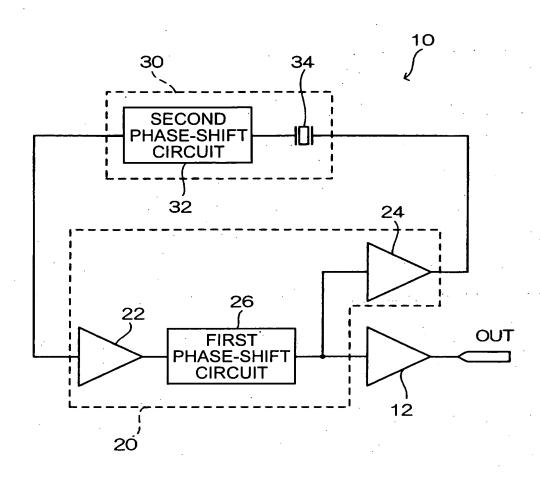
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10: OSCILLATOR CIRCUIT

20: AMPLIFYING CIRCUIT

22, 24: AMPLIFIER

26: FIRST PHASE-SHIFT CIRCUIT

30: FEEDBACK CIRCUIT

32: SECOND PHASE-SHIFT CIRCUIT

34: PIEZOELECTRIC VIBRATOR

FIG. 1

Title: OSCILLATOR CIRCUIT, OSCILLATOR CIRCUIT ADJUSTING METHOD, AND MASS MEASURING APPARATUS USING OSCILLATOR CIRCUIT

Inventor: Yoshihiro KOBAYASHI Atty. Ref.: 9319S-000705

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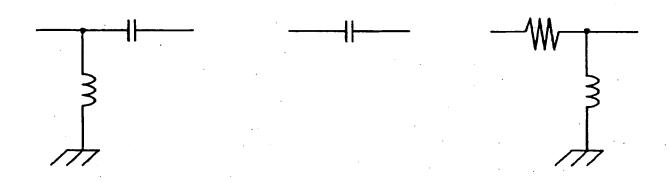


FIG. 2A

FIG. 2B

FIG. 2C

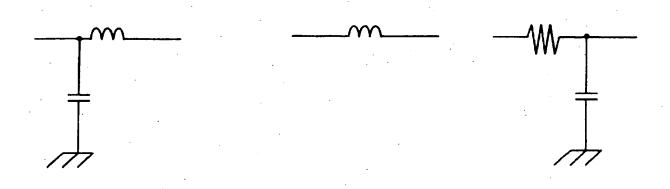


FIG. 3A

FIG. 3B

FIG. 3C

Title: OSCILLATOR CIRCUIT, OSCILLATOR CIRCUIT ADJUSTING METHOD, AND MASS MEASURING APPARATUS USING OSCILLATOR CIRCUIT

Inventor: Yoshihiro KOBAYASHI Atty. Ref.: 9319S-000705

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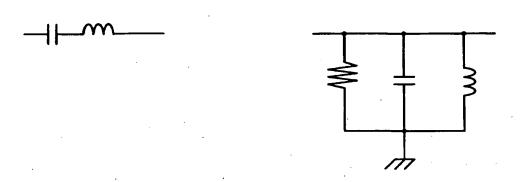


FIG. 4A

FIG. 4B

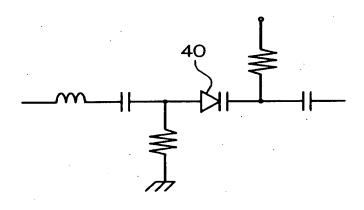


FIG. 5

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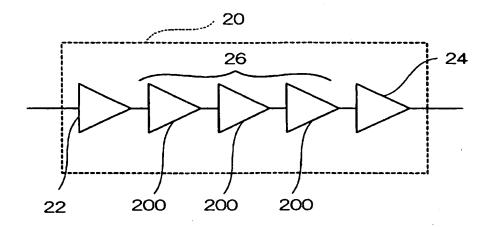


FIG. 6A

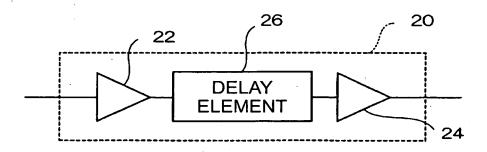


FIG. 6B

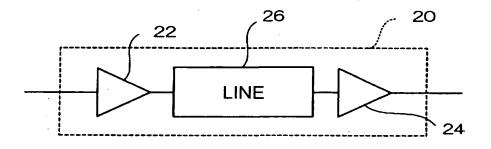


FIG. 6C

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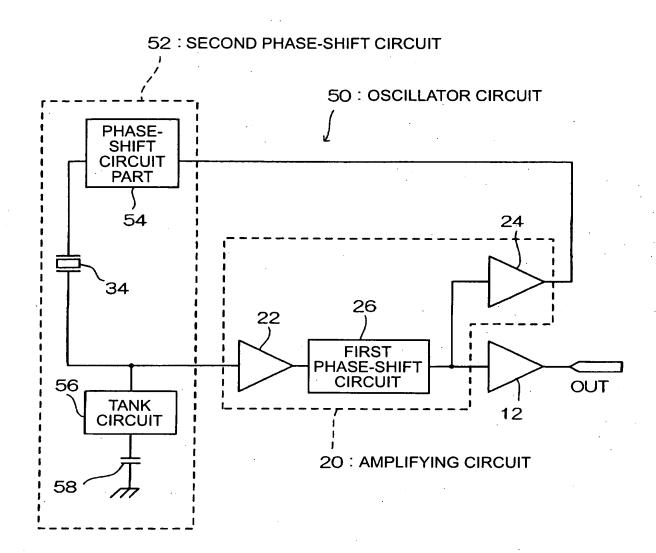


FIG. 7

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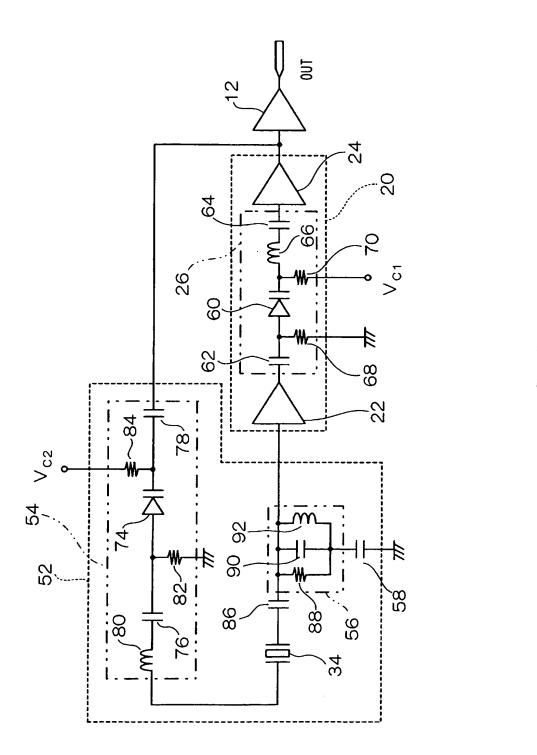


FIG. 8

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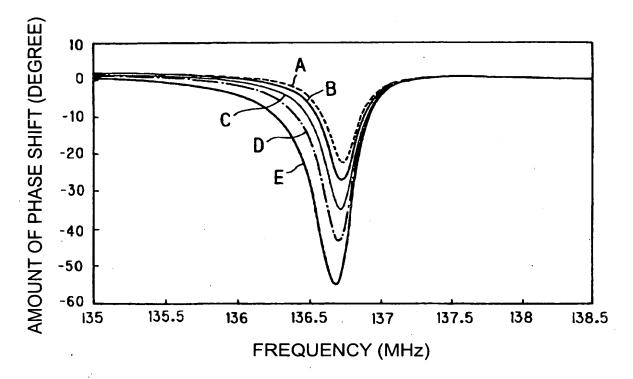


FIG. 9

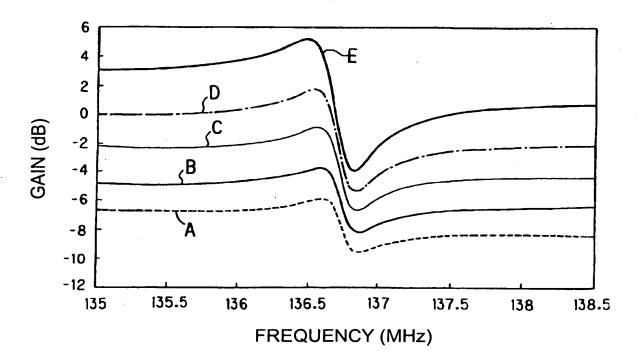


FIG. 10



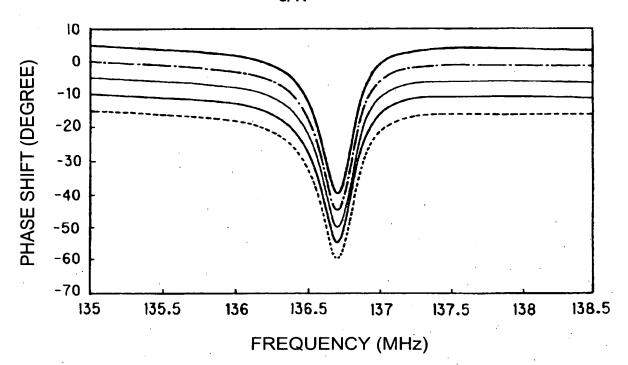


FIG. 11

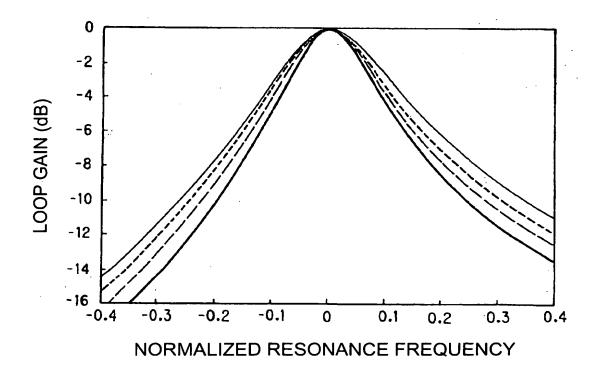


FIG. 12

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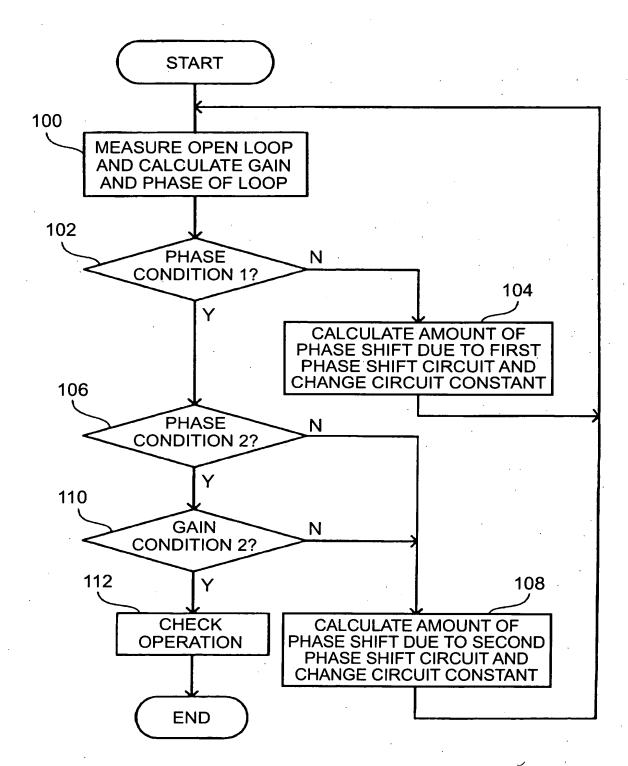


FIG. 13

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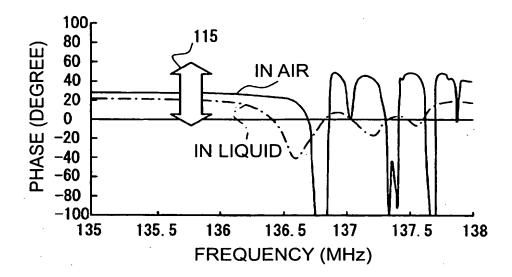


FIG. 14

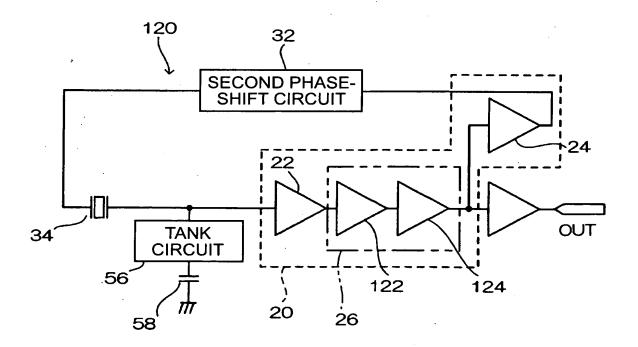


FIG. 15

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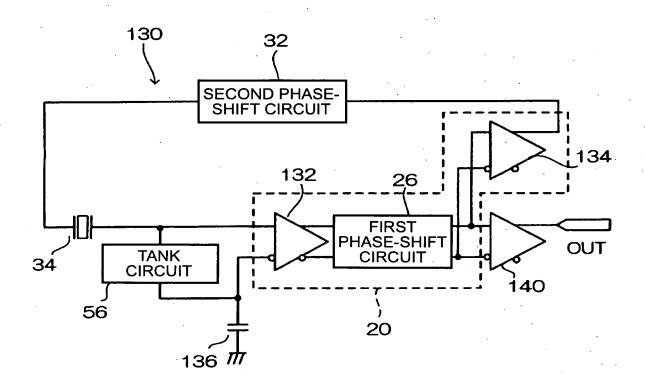
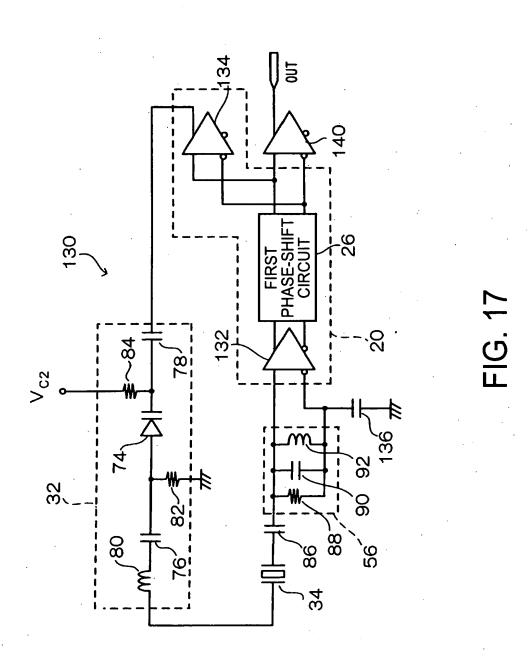


FIG. 16

Title: OSCILLATOR CIRCUIT, OSCILLATOR CIRCUIT ADJUSTING METHOD, AND MASS MEASURING APPARATUS USING OSCILLATOR CIRCUIT Inventor: Yoshino KOBAYASHI

Atty. Ref.: 9319S-000705

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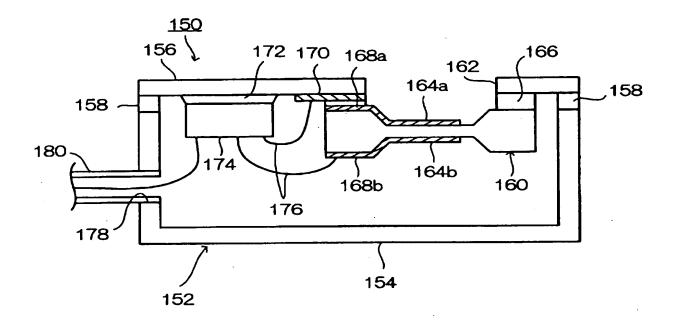


FIG. 18

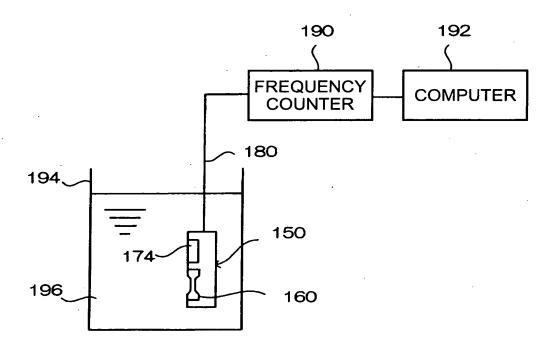


FIG. 19

Title: OSCILLATOR CIRCUIT, OSCILLATOR CIRCUIT ADJUSTING METHOD, AND MASS MEASURING APPARATUS USING OSCILLATOR CIRCUIT

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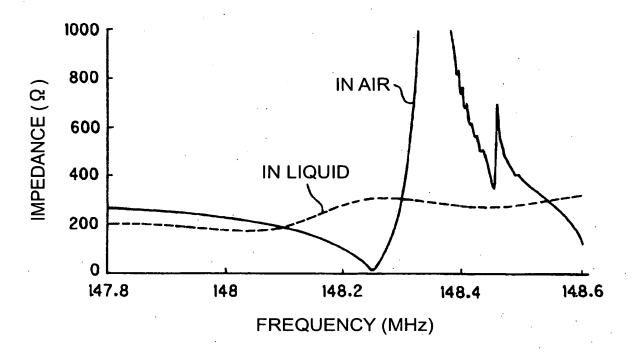


FIG. 20

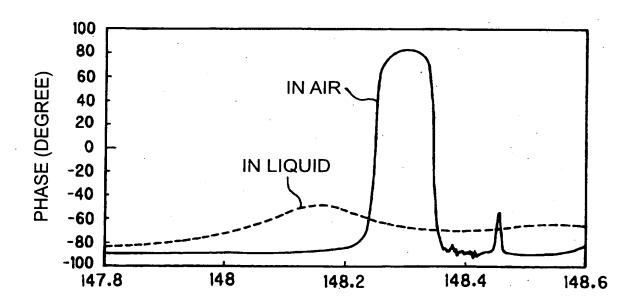


FIG. 21

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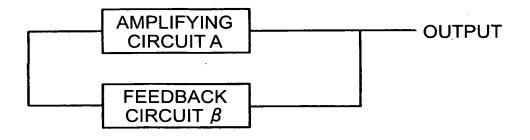


FIG. 22

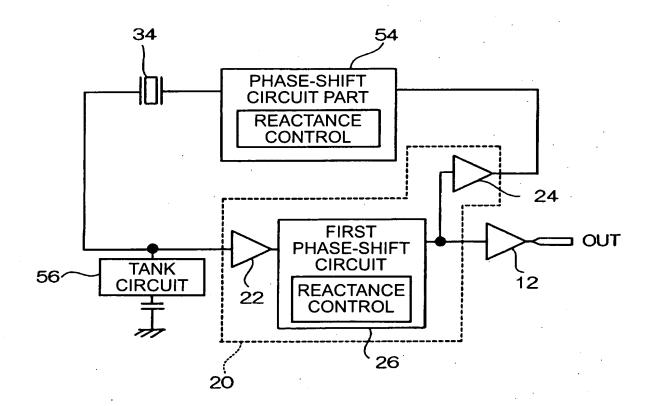
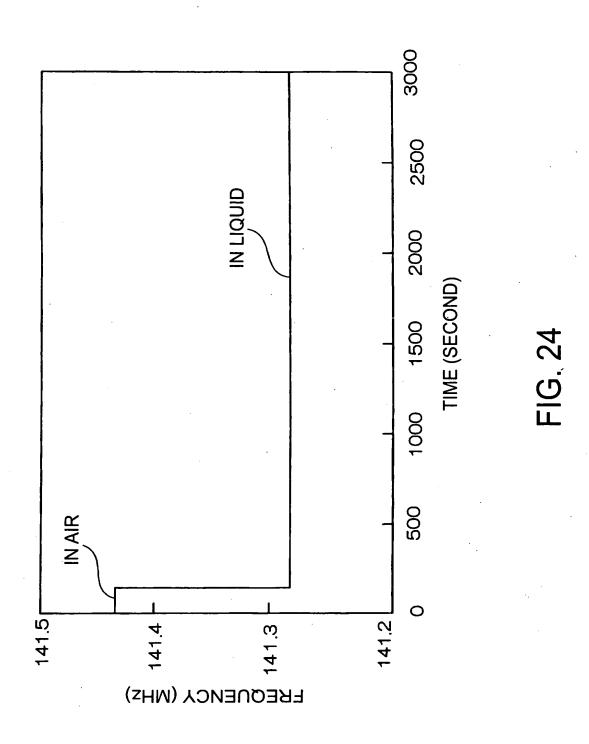


FIG. 23

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